

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	323	(ASANUMA.in. or TAKAMITSU.in. ) and (exhaust near3 gas) and (engine)	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/25 14:41
S2	79	(ASANUMA.in. or TAKAMITSU.in. ) and (exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2"))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/25 14:46
S3	15	(ASANUMA.in. or TAKAMITSU.in. ) and (exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" ))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/25 14:46
S4	234	((exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2"))).CLM.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/08/25 14:50

## EAST Search History

S5	19	((exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2"))) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) ).CLM.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/08/25 14:50
S6	4059	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2"))) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) ).CLM.	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/08/25 14:50
S7	1768	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2"))) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" ))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/08/25 15:05
S8	39	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2"))) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2"))) near4 (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TDB	OR	ON	2006/08/25 15:20

## EAST Search History

S9	21	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) near2 (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:38
S10	7	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2 S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) near2 (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/25 15:05
S11	29	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and ((sulfur\$4 ) near4 (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/25 15:06
S12	761	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (sensor)	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/25 15:06

## EAST Search History

S13	2	"2003170577"	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/25 15:15
S14	179	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) same (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:41
S15	25	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) near2 (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:40
S16	52	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) near4 (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:40

## EAST Search History

S17	82	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) near6 (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:41
S18	57	S17 not S15	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:41
S19	179	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) same (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:43
S20	2	S17 not S19	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:55

## EAST Search History

S21	193	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) same (sensor or detector))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:48
S22	14	S21 not S19	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:43
S23	459	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) same (calculat\$4 or measur\$4 or estimat\$4))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:49

## EAST Search History

S24	189	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) near6 (calculat\$4 or measur\$4 or estimat\$4))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:49
S25	158	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) near4 (calculat\$4 or measur\$4 or estimat\$4))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:50
S26	108	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) near4 (calculat\$4 or measur\$4 or estimat\$4)) and (detect\$4 or sensor)	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:57

## EAST Search History

S27	47	S26 not S19	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 08:55
S28	12	(exhaust near3 gas) and (engine) and ((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2")) and (( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) and (((sulfur\$4 near4 oxid\$4) or (SOx or "SO.sub.x" or "SO.sub.2" or poison\$4)) near4 (calculat\$4 or measur\$4 or estimat\$4)) and (detect\$4 or sensor) and ((( hydrogen near4 sulf\$4) or (H2S or "H.sub.2S" )) near4 (calculat\$4 or measur\$4 or estimat\$4))	US-PGPU B; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	OR	ON	2006/08/26 09:00
S30	23	("6051123"   "6272848"   "6318073"   "6348177"   "6574955"   "6779339"   "6922988"   "6968679"). URPN.	USPAT	OR	ON	2006/08/26 09:07



## EAST Search History

S31	121	("3514377"   "3860498"   "3989614"   "4044601"   "4135381"   "4151503"   "4172770"   "4190499"   "4272331"   "4292158"   "4298573"   "4300991"   "4305724"   "4306957"   "4314996"   "4345985"   "4487680"   "4522690"   "4570479"   "4572900"   "4792433"   "4832818"   "4909072"   "4990235"   "5012671"   "5034107"   "5034112"   "5057483"   "5116800"   "5120422"   "5134108"   "5145566"   "5173166"   "5217588"   "5226309"   "5254519"   "5273628"   "5279145"   "5307625"   "5329764"   "5388406"   "5397442"   "5402641"   "5409591"   "5426934"   "5451558"   "5452576"   "5472673"   "5473890"   "5479775"   "5490977"   "5586433"   "5657625"   "5715677"   "5727385"   "5750082"   "5753192"   "5758489"   "5758493"   "5771686"   "5778666"   "5832722"   "5837212"   "5849254"   "5853459"   "5911961"   "5921076"   "5953907"   "5974788"   "5974791"   "5983627"   "6000218"   "6058700"   "6082100"   "6092367"   "6119450"   "6141959"   "6145303"   "6161377"   "6164064"   "6167696"   "6174421"   "6176079"   "6209316"   "6293094"   "6301878"   "6318073"   "6355151"   "6378295"   "6427439"   "6546720"   "6574955"   "6588205"   "6592732"   "6637198"   "6708486"   "6854366"   "6854366"	US-PGPU B; USPAT; USOCR	OR	ON	2006/08/26 11:49
9/1/2006 11:32:04 AM		C:\Documents and Settings\brant\My Documents\EAST\Workspaces\10562900.wsp	Page 9			

## EAST Search History

S32	98	("3514377"   "3860498"   "3989614"   "4044601"   "4135381"   "4151503"   "4172770"   "4190499"   "4272331"   "4292158"   "4298573"   "4300991"   "4305724"   "4306957"   "4314996"   "4345985"   "4487680"   "4522690"   "4570479"   "4572900"   "4792433"   "4832818"   "4909072"   "4990235"   "5012671"   "5034107"   "5034112"   "5057483"   "5116800"   "5120422"   "5134108"   "5145566"   "5173166"   "5217588"   "5226309"   "5254519"   "5273628"   "5279145"   "5307625"   "5329764"   "5388406"   "5397442"   "5402641"   "5409591"   "5426934"   "5451558"   "5452576"   "5472673"   "5473890"   "5479775"   "5490977"   "5586433"   "5657625"   "5715677"   "5727385"   "5750082"   "5753192"   "5758489"   "5758493"   "5771686"   "5778666"   "5832722"   "5837212"   "5849254"   "5853459"   "5911961"   "5921076"   "5953907"   "5974788"   "5974791"   "5983627"   "6000218"   "6058700"   "6082100"   "6092367"   "6119450"   "6141959"   "6145303"   "6161377"   "6164064"   "6167696"   "6174421"   "6176079"   "6209316"   "6293094"   "6301878"   "6318073"   "6355151"   "6378295"   "6427439"   "6546720"   "6574955"   "6588205"   "6592732"   "6637198"   "6708486"   "6854366"   "6854366"	US-PGPU B; USPAT; USOCR	OR	ON	2006/08/26 11:49
9/1/2006 11:32:04 AM		C:\Documents and Settings\htran\My Documents\EAST\Workspaces\10562900.wsp	Page 10			

## EAST Search History

S33	22	(("3514377"   "3860498"   "3989614"   "4044601"   "4135381"   "4151503"   "4172770"   "4190499"   "4272331"   "4292158"   "4298573"   "4300991"   "4305724"   "4306957"   "4314996"   "4345985"   "4487680"   "4522690"   "4570479"   "4572900"   "4792433"   "4832818"   "4909072"   "4990235"   "5012671"   "5034107"   "5034112"   "5057483"   "5116800"   "5120422"   "5134108"   "5145566"   "5173166"   "5217588"   "5226309"   "5254519"   "5273628"   "5279145"   "5307625"   "5329764"   "5388406"   "5397442"   "5402641"   "5409591"   "5426934"   "5451558"   "5452576"   "5472673"   "5473890"   "5479775"   "5490977"   "5586433"   "5657625"   "5715677"   "5727385"   "5750082"   "5753192"   "5758489"   "5758493"   "5771686"   "5778666"   "5832722"   "5837212"   "5849254"   "5853459"   "5911961"   "5921076"   "5953907"   "5974788"   "5974791"   "5983627"   "6000218"   "6058700"   "6082100"   "6092367"   "6119450"   "6141959"   "6145303"   "6161377"   "6164064"   "6167696"   "6174421"   "6176079"   "6209316"   "6293094"   "6301878"   "6318073"   "6355151"   "6378295"   "6427439"   "6546720"   "6574955"	US-PGPU B; USPAT; USOCR	OR	ON	2006/08/26 11:50
9/1/2006 11:32:04 AM		"6588205"   "6592732" "6637198"   "6708486" "6954366"   "7011000"				

## EAST Search History

S34	17	(("3514377"   "3860498"   "3989614"   "4044601"   "4135381"   "4151503"   "4172770"   "4190499"   "4272331"   "4292158"   "4298573"   "4300991"   "4305724"   "4306957"   "4314996"   "4345985"   "4487680"   "4522690"   "4570479"   "4572900"   "4792433"   "4832818"   "4909072"   "4990235"   "5012671"   "5034107"   "5034112"   "5057483"   "5116800"   "5120422"   "5134108"   "5145566"   "5173166"   "5217588"   "5226309"   "5254519"   "5273628"   "5279145"   "5307625"   "5329764"   "5388406"   "5397442"   "5402641"   "5409591"   "5426934"   "5451558"   "5452576"   "5472673"   "5473890"   "5479775"   "5490977"   "5586433"   "5657625"   "5715677"   "5727385"   "5750082"   "5753192"   "5758489"   "5758493"   "5771686"   "5778666"   "5832722"   "5837212"   "5849254"   "5853459"   "5911961"   "5921076"   "5953907"   "5974788"   "5974791"   "5983627"   "6000218"   "6058700"   "6082100"   "6092367"   "6119450"   "6141959"   "6145303"   "6161377"   "6164064"   "6167696"   "6174421"   "6176079"   "6209316"   "6293094"   "6301878"   "6318073"   "6355151"   "6378295"   "6427439"   "6546720"   "6574955"	US-PGPU B; USPAT; USOCR	OR	ON	2006/08/26 11:50
9/1/2006 11:32:04 AM C:\Documents and Settings\brant\My Documents\VEAST\Workspaces\10562900.wsp		"6588205"   "6592732"   "6637198"   "6708486"   "6854366"   "6854366"				Page 12

## EAST Search History

S35	6	("5974791"   "6145303"   "6574955"   "6588205"   "6637198"   "6854266").PN.	US-PGPU B; USPAT; USOCR	OR	ON	2006/08/26 11:51
S36	11	("20020148218"   "5402641"   "5758493"   "5771685"   "6199372"   "6205773"   "6263666"   "6269634"   "6327848"   "6327849"   "6378297").PN.	US-PGPU B; USPAT; USOCR	OR	ON	2006/08/26 11:52
S37	2	("6637198").URPN.	USPAT	OR	ON	2006/08/26 11:52
S38	11	("20020148218"   "5402641"   "5758493"   "5771685"   "6199372"   "6205773"   "6263666"   "6269634"   "6327848"   "6327849"   "6378297").PN.	US-PGPU B; USPAT; USOCR	OR	ON	2006/08/26 11:52
S39	2	("6637198").URPN.	USPAT	OR	ON	2006/08/26 11:52
S40	5	("5657625"   "5727385"   "5832722"   "5974788"   "5983627").PN.	US-PGPU B; USPAT; USOCR	OR	ON	2006/08/26 11:52
S41	11	("6145303").URPN.	USPAT	OR	ON	2006/08/26 11:53
S42	0	("6922988").URPN.	USPAT	OR	ON	2006/08/26 11:54